SCCSID = trginput.man v1.1 02/15/03

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Date: 02/03/03

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SOUTH FLORIDA WATER MANAGEMENT MODEL V5.0 INPUT MAN PAGE FOR

This file defines the parameter values for implementing short-term water supply restrictions in the Lower East Coast of South Florida. The file primarily contains trigger water levels (as indicators for saltwater intrusion) at pre-defined trigger well locations and corresponding irrigation and public water supply cutbacks.

OLUMNS '	VARIABLE NAME	FORMAT	DESCRIPTION		
. TRIGG	ER INPUT PARAMETERS: (1 record				
•	unit_trig_out echo_trig min_lok_ssm_cnt	Free Free Free	unit number for output data file unit number for output echo print minimum number of days LOK is in Supply-Side Management for cutbacks to be imposed in the LEC for the following month		
2. PUBLIC WATER SUPPLY CUTBACK FRACTION: (1 record total)					
- (d on the same record for phase = 1,4. cutback fraction to be applied to public water supply		
. URBAN	LANDSCAPE MAX. NET IRRIGATION	_	,		
_ (note: The following field is	repeated	d on the same record for phase = 1,4. Maximum net irrigation application rate (inches/month) for urban landscape irrigation		
. NURSE	RY MAX. NET IRRIGATION APPLICAT	TION RATE	S: (1 record total)		
- (_	d on the same record for phase = 1,4. Maximum net irrigation application rate (inches/month) for nursery irrigation		
		Free	Maximum net irrigation application rate (inches/month) nursery irrigation		

1-	note: The following field is repeated on the same record for phase = 1,4. def_cutback(4,phase) Free Maximum net irrigation application rate (inches/month) for golf course irrigation				
6.	AGRICULTURAL LOW VOLUME MAX. NET IRRIGATION APPLICATION RATES: (1 record total)				
1-	note: The following field is repeated on the same record for phase = 1,4. def_cutback(5,phase) Free Maximum net irrigation application rate (inches/month) for low volume irrigation				
7.	AGRICULTURAL OVERHEAD MAX. NET IRRIGATION APPLICATION RATES: (1 record total)				
1-	note: The following field is repeated on the same record for phase = 1,4. def_cutback(6,phase) Free Maximum net irrigation application rate (inches/month) for overhead irrigation				
8.	AGRICULTURAL (OTHERS) MAX. NET IRRIGATION APPLICATION RATES: (1 record total)				
1-	note: The following field is repeated on the same record for phase = 1,4. def_cutback(7,phase) Free Maximum net irrigation application rate (inches/month) for other irrigation types				
9.	PUBLIC WATER SUPPLY CUTBACK FRACTION: (1 record total)				
1-					
	note: Set of records 10. through 25. is repeated for each trigger zone, i.e., zone = 1,n_zone.				
10	. ZONE NUMBER: (1 record total)				
1-	zonel Free zone number; must be specified in increasing order				
11	. DEFINITION OF TWO CORNERS OF (RECTANGULAR) TRIGGER ZONE: (1 record total)				
1-	note: The following field is repeated on the same record for phase = 1,4. zone_corner(zone,1,1)				
12	12. NUMBER OF TRIGGERS IN ZONE: (1 record total)				
1-					
	note: Set of records 13. through 25. is repeated for each trigger, i.e., trig = 1,n_trigger(zone).				
13	. TRIGGER TYPE: (1 record total)				

1-	t_type	Free	type of	trigger	for trigger	"trig"	in zone	"zone";	either
			groundwa	ater leve	1 (awhd or G	WHD) or	canal r	name	

-	tcell_col(zone,trig)	Free	model column location of trigger cell "trig" in zone "zone"
	tcell_row(zone,trig)	Free	model row location of trigger cell "trig" in zone "zone"
	<pre>trig_value(zone,trig,1)</pre>	Free	threshold water levels (ft NGVD) below which cutback will be triggerred by trigger cell "trig" in zone "zone" at water restriction phase 1
	<pre>trig_value(zone,trig,1)</pre>	Free	threshold water levels (ft NGVD) below which cutback will be triggerred by trigger cell "trig" in zone "zone" at water restriction phase 2
	<pre>trig_value(zone,trig,1)</pre>	Free	threshold water levels (ft NGVD) below which cutback will be triggerred by trigger cell "trig" in zone "zone" at water restriction phase 3
	<pre>trig_value(zone,trig,1)</pre>	Free	threshold water levels (ft NGVD) below which cutback will be triggerred by trigger cell "trig" in zone "zone" at water restriction phase 4
	note: This record is read	in only if	t_type = "gwhd" or GWHD".
5. T	FRIGGER PERIOD BASED ON GROUNDWA	TER HEAD:	·
•	<pre>trig_period(zone,trig,1)</pre>	Free	minimum length of time (expressed as a fraction of the previous month) when trigger "trig" in zone "zone" has to stay below water level trig_value(zone,trig,1) as a necessary conditon before a phase 1 water restriction is declared for all water users (PWS and irrigation) in zone "zone"
			minimum length of time (ourselend on a function of the constitute
	<pre>trig_period(zone,trig,2)</pre>	Free	minimum length of time (expressed as a fraction of the previous month) when trigger "trig" in zone "zone" has to stay below water level trig_value(zone,trig,2) as a necessary condition before a phase 2 water restriction is declared for all water users (PWS and irrigation) in zone "zone"
	<pre>trig_period(zone,trig,2) trig_period(zone,trig,3)</pre>	Free Free	month) when trigger "trig" in zone "zone" has to stay below water level trig_value(zone,trig,2) as a necessary conditon before a phase 2 water restriction is declared for all water users (PWS and irrigation) in zone "zone" minimum length of time (expressed as a fraction of the previous month) when trigger "trig" in zone "zone" has to stay below water level trig_value(zone,trig,3) as a necessary conditon before a phase 3 water restriction is declared for all water
		Free Free	month) when trigger "trig" in zone "zone" has to stay below water level trig_value(zone,trig,2) as a necessary conditon before a phase 2 water restriction is declared for all water users (PWS and irrigation) in zone "zone" minimum length of time (expressed as a fraction of the previous month) when trigger "trig" in zone "zone" has to stay below water level trig_value(zone,trig,3) as a necessary conditon before a phase 3 water restriction is declared for all water users (PWS and irrigation) in zone "zone" minimum length of time (expressed as a fraction of the previous month) when trigger "trig" in zone "zone" has to stay below water level trig_value(zone,trig,4) as a necessary conditon before a phase 4 water restriction is declared for all water users (PWS and irrigation) in zone "zone"

threshold water levels (ft NGVD) below which cutback will be

trig_value(zone,trig,1)

Free

1-

triggerred by trigger cell "trig" in zone "zone" at water restriction phase 1 trig value(zone, trig, 2) threshold water levels (ft NGVD) below which cutback will be Free triggerred by trigger cell "trig" in zone "zone" at water restriction phase 2 trig_value(zone,trig,3) Free threshold water levels (ft NGVD) below which cutback will be triggerred by trigger cell "trig" in zone "zone" at water restriction phase 3 threshold water levels (ft NGVD) below which cutback will be trig_value(zone,trig,4) Free triggerred by trigger cell "trig" in zone "zone" at water restriction phase 4 note: This record is read in only if t type is a canal name that matches one of the canal names as defined in input file "canal grid loc.dat" or model array variable name "cnm()". ______ 17. TRIGGER PERIOD BASED ON CANAL LEVEL: (1 record total) ______ 1 – trig period(zone,trig,1) Free minimum length of time (expressed as a fraction of the previous month) when trigger "trig" in zone "zone" has to stay below canal level trig value(zone, trig, 1) as a necessary conditon before a phase 1 water restriction is declared for all water users (PWS and irrigation) in zone "zone" triq period(zone,triq,2) Free minimum length of time (expressed as a fraction of the previous month) when trigger "trig" in zone "zone" has to stay below canal level triq value(zone, triq, 2) as a necessary condition before a phase 1 water restriction is declared for all water users (PWS and irrigation) in zone "zone" trig_period(zone,trig,3) Free minimum length of time (expressed as a fraction of the previous month) when trigger "trig" in zone "zone" has to stay below canal level trig value(zone, trig, 3) as a necessary conditon before a phase 1 water restriction is declared for all water users (PWS and irrigation) in zone "zone" triq period(zone,triq,4) minimum length of time (expressed as a fraction of the previous Free month) when trigger "trig" in zone "zone" has to stay below canal level trig value(zone, trig, 4) as a necessary conditon before a phase 1 water restriction is declared for all water users (PWS and irrigation) in zone "zone" note: This record is read in only if t type is a canal name that matches one of the canal names as defined in input file "canal grid loc.dat" or model array variable name "cnm()". 18. FLAG FOR DEFAULT CUTBACK LEVELS: (1 record total) flag to be used to check if default cutback levels (records 2 1check default Free through 8) are to be applied to this particular trigger "trig" and

through 8) are to be applied to this particular trigger "trig" and zone "zone"; either default values (default or DEFAULT) or non-default/special levels will be used. Cutback levels are assigned for a unique combination of zone, trigger, water use type (PWS or one of the six irrigation types) and water restriction phase.

note: Set of records 19. through 25. is read in only if check_default is different from "default" or "DEFAULT".

19.	PUBLIC WATER SUPPLY CUTBACK FRACTION: (1 record total)
1-	note: The following field is repeated on the same record for phase = 1,4. cutback(zone,trig,1,phase) Free cutback fraction to be applied to public water supply
20.	URBAN LANDSCAPE MAX. NET IRRIGATION APPLICATION RATES: (1 record total)
1-	note: The following field is repeated on the same record for phase = 1,4. cutback(zone,trig,2,phase) Free Maximum net irrigation application rate (inches/month) for urban landscape irrigation
21.	NURSERY MAX. NET IRRIGATION APPLICATION RATES: (1 record total)
1-	note: The following field is repeated on the same record for phase = 1,4. cutback(zone,trig,3,phase) Free Maximum net irrigation application rate (inches/month) for nursery irrigation
22.	GOLF COURSE MAX. NET IRRIGATION APPLICATION RATES: (1 record total)
1-	note: The following field is repeated on the same record for phase = 1,4. cutback(zone,trig,4,phase) Free Maximum net irrigation application rate (inches/month) for golf course irrigation
23.	AGRICULTURAL LOW VOLUME MAX. NET IRRIGATION APPLICATION RATES: (1 record total)
1-	note: The following field is repeated on the same record for phase = 1,4. cutback(zone,trig,5,phase) Free Maximum net irrigation application rate (inches/month) for low volume irrigation
24.	AGRICULTURAL OVERHEAD MAX. NET IRRIGATION APPLICATION RATES: (1 record total)
1-	note: The following field is repeated on the same record for phase = 1,4. cutback(zone,trig,6,phase) Free Maximum net irrigation application rate (inches/month) for overhead irrigation
25.	AGRICULTURAL (OTHERS) MAX. NET IRRIGATION APPLICATION RATES: (1 record total)
1-	note: The following field is repeated on the same record for phase = 1,4. cutback(zone,trig,7,phase) Free Maximum net irrigation application rate (inches/month) for other irrigation types